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ABSTRACT OF THE DISCLOSURE

To solve problems associated with undesirable duplication of see-through back image in a double-sided input document, a method of and a system for substantially eliminating the undesirable see-through back images initially scanns a front side image and a back side image from the double-sided document and store the scanned images. The front side image has portions, and some of the portions include an original front image as well as a see-through back image from the back side image. An edge amount for each of the portions is determined in the front side image. The see-through back images are separated from the original front images based upon the edge amount. To further improve the correct removal of the undesired see-through back image, the above processed portions having a certain edge are smoothed. Character portions and dot pattern portions are further separated from background portions in the smoothed data. Finally, the intensity level of the character portions, the dot pattern portions and the background portions are adjusted by a corresponding predetermined conversion function so as to substantially eliminate the see-through back image.